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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,135	07/13/2004	Fabio Giannessi	2818-207	7877
23117	7590 11/28/2006		EXAMINER	
NIXON & VANDERHYE, PC			YOUNG, SHAWQUIA	
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203		OOR	ART UNIT	PAPER NUMBER
			1626	
			DATE MAILED: 11/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/501,135	GIANNESSI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shawquia Young	1626				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. & 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
,,						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the d	•	` '				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some.* c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		·				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
Information Disclosure Statement(s) (PTO/SB/08)   Paper No(s)/Mail Date	5) \( \square\) Notice of Informal Pa	sterit Application .				

### **DETAILED ACTION**

Claims 1-9 are currently pending in this application.

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

## Lack of Unity Requirement

Claims 1-9 are drawn to more than one inventive concept (as defined by PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1 (b), provides that "special technical features" mean those technical features, which, as a whole, define a contribution over the prior art.

Annex B, Part 1 (e), provides combinations of different categories of claims and states:

"The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:

(i) in addition to an independent claim for a given product, an independent claims for a process specially adapted for the manufacture of the said product, and an

independent claim for use of the said product, or

- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specially designed for carrying out the said process,
- (iii) in addition to an independent claim for a given product, and independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for an apparatus or means specially designed for carrying out the said process...."

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Due to the numerous variables in the claims, e.g. R, R1, A, Ar, z, f, m, Q, h,n, Y etc. and their widely divergent meanings, a precise listing of inventive groups cannot be made. The following groups are exemplary:

Group I claim(s) 1-7 (in-part), are drawn to compounds of formula (I) wherein: A is CX; alkanylilidene with 2 to 4 carbon atoms, particularly CH<sub>2</sub>-CH; alkenylilidene with 2 to 4 carbon atoms, particularly CH=C; Ar is a monocyclic 5-membered heteroaryl, containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen and sulphur, possibly substituted by halogens, NO<sub>2</sub>, OH, C<sub>1</sub>-C<sub>4</sub> alkyl and alkoxy, said alkyl and alkoxy possibly substituted by at least one halogen; m is a whole number from 0 to 3; n is the number 0 or 1; Q and Z , which may be the same or different, are selected from the group as defined in claim 1; R is selected from R2, OR2; R1 is as defined in claim 1; R<sub>2</sub> is selected from H, straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl, possibly substituted by at least one halogen; R<sub>3</sub> is as defined in claim 1; W is selected from OH, OR<sub>4</sub>, NH<sub>2</sub>; R<sub>4</sub> is straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl; Y is selected from OH, OR<sub>5</sub>; NH<sub>2</sub>; R<sub>5</sub> is as defined in claim 1; is classified in class 548.

Group II claim(s) 1-7 (in-part), are drawn to compounds of formula (I) wherein: A is CX; alkanylilidene with 2 to 4 carbon atoms, particularly CH<sub>2</sub>-CH; alkenylilidene with 2 to 4 carbon atoms, particularly CH=C; Ar is a monocyclic 6-membered heteroaryl, containing one nitrogen, possibly substituted by halogens, NO<sub>2</sub>, OH, C<sub>1</sub>-C<sub>4</sub> alkyl and alkoxy, said alkyl and alkoxy possibly substituted by at least one halogen; m is a whole number from 0 to 3; n is the number 0 or 1; Q and Z ,which may be the same or different, are selected from the group as defined in claim 1; R is selected from R<sub>2</sub>, OR<sub>2</sub>; R<sub>1</sub> is as defined in claim 1; R<sub>2</sub> is selected from H, straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl, possibly substituted by at least one halogen; R<sub>3</sub> is as defined in claim 1; W is selected from OH, OR<sub>4</sub>, NH<sub>2</sub>; R<sub>4</sub> is straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl; Y is selected from OH, OR<sub>5</sub>; NH<sub>2</sub>; R<sub>5</sub> is as defined in claim 1; is classified in class 546.

Group III claim(s) 1-7 (in-part), are drawn to compounds of formula (I) wherein: A is CX; alkanylilidene with 2 to 4 carbon atoms, particularly CH<sub>2</sub>-CH; alkenylilidene with 2 to 4 carbon atoms, particularly CH=C; Ar is a monocyclic 6-membered heteroaryl, containing two or more heteroatoms, selected from the group consisting of nitrogen, oxygen and sulphur and with at least one of the heteroatoms being a nitrogen, possibly substituted by halogens, NO<sub>2</sub>, OH, C<sub>1</sub>-C<sub>4</sub> alkyl and alkoxy, said alkyl and alkoxy possibly substituted by at least one halogen; m is a whole number from 0 to 3; n is the number 0 or 1; Q and Z ,which may be the same or different, are selected from the group as defined in claim 1; R is selected from R<sub>2</sub>, OR<sub>2</sub>; R<sub>1</sub> is as defined in claim 1; R<sub>2</sub> is selected from H, straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl, possibly substituted by at least one

Art Unit: 1626

halogen;  $R_3$  is as defined in claim 1; W is selected from OH,  $OR_4$ ,  $NH_2$ ;  $R_4$  is straight or branched  $C_1$ - $C_4$  alkyl; Y is selected from OH,  $OR_5$ ;  $NH_2$ ;  $R_5$  is as defined in claim 1; is classified in class 544.

**Group IV** claim(s) 1-7 (in-part), are drawn to compounds of formula (I) wherein: **A** is CX; alkanylilidene with 2 to 4 carbon atoms, particularly CH<sub>2</sub>-CH; alkenylilidene with 2 to 4 carbon atoms, particularly CH=C; **Ar** is monocyclic or bicyclic C<sub>6</sub>-C<sub>10</sub> aryl, possibly substituted by halogens, NO<sub>2</sub>, OH, C<sub>1</sub>-C<sub>4</sub> alkyl and alkoxy, said alkyl and alkoxy possibly substituted by at least one halogen; **m** is a whole number from 0 to 3; **n** is the number 0 or 1; **Q and Z**, which may be the same or different, are selected from the group as defined in claim 1; **R** is selected from R<sub>2</sub>, OR<sub>2</sub>; R<sub>1</sub> is as defined in claim 1; R<sub>2</sub> is selected from H, straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl, possibly substituted by at least one halogen; R<sub>3</sub> is as defined in claim 1; **W** is selected from OH, OR<sub>4</sub>, NH<sub>2</sub>; R<sub>4</sub> is straight or branched C<sub>1</sub>-C<sub>4</sub> alkyl; **Y** is selected from OH, OR<sub>5</sub>; NH<sub>2</sub>; R<sub>5</sub> is as defined in claim 1; is classified in class 548.

**Group V** claim(s) 8-9, are drawn to various methods of use for compounds of formula (I), classified in various subclasses of class 514.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted. Again, **this list is not exhausted**, as it would be impossible under the time constraints due to the sheer volume of subject matter instantly claimed. Therefore, applicant may choose to elect a single invention by identifying another specific embodiment not listed in the exemplary groups of the invention and examiner will endeavor to group the same. **If applicant is** 

Art Unit: 1626 -

unable to elect a single invention, applicant may instead choose to elect a specific compound and examiner will attempt to group it. The claims herein lack unity of invention under PCT Rule 13.1 and 13.2 since the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art (See, US Patent No. 5,232,945, Example 20

for example). The compounds claimed contain

which does not define a contribution over the prior art. The compounds vary in classification and when taken as a whole result in vastly different compounds. Accordingly, the vastness of the claimed subject matter and the complications in understanding the claimed subject matter imposes a burden on any examination of the claimed subject matter.

## Advisory of Rejoinder

The following is a recitation of M.P.E.P. 821.04, Rejoinder:

Where product and process claims drawn to independent and distinct inventions are presented in the same application, applicant may be called upon under 35 U.S.C. 121 to elect claims to either the product or process. See MPEP § 806.05(f) and § 806.05(h). The claims to the nonelected invention will be withdrawn from further consideration under 37 CFR 1.142. See MPEP § 809.02(c) and § 821 through § 821.03. However, if applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims which depend from or otherwise include all the limitations of the allowable product claim will be rejoined.

Where the application as originally filed discloses the product and the process for making and/or using the product, and only claims directed to the product are presented for examination, when a product claim is found allowable, applicant may present claims directed to the process of making and/or using the patentable product by way of amendment pursuant to 37 CFR 1.121. In view of the rejoinder procedure, and in order to expedite prosecution, applicants are encouraged to present such process claims.

Application/Control Number: 10/501,135

Art Unit: 1626

preferably as dependent claims, in the application at an early stage of prosecution. Process claims which depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance. Amendments submitted after final rejection are governed by 37 CFR 1.116. Process claims which do not depend from or otherwise include the limitations of the patentable product will be withdrawn from consideration, via an election by original presentation (see MPEP § 821.03). Amendments submitted after allowance are governed by 37 CFR 1.312. Process claims which depend from or otherwise include all the limitations of an allowed product claim and which meet the requirements of 35 U.S.C. 101, 102, 103, and 112 may be entered.

Where product and process claims are presented in a single application and that application qualifies under the transitional restriction practice pursuant to 37 CFR 1.129(b), applicant may either: (A) elect the invention to be searched and examined and pay the fee set forth in 37 CFR 1.17(s) and have the additional inventions searched and examined under 37 CFR 1.129(b)(2); or (B) elect the invention to be searched and examined and not pay the additional fee (37 CFR 1.129(b)(3)). Where no additional fee is paid, if the elected invention is directed to the product and the claims directed to the product are subsequently found patentable, process claims which either depend from or include all the limitations of the allowable product will be rejoined. If applicant chooses to pay the fees to have the additional inventions searched and examined pursuant to 37 CFR 1.129(b)(2) even if the product is found allowable, applicant would not be entitled to a refund of the fees paid under 37 CFR 1.129(b) by arguing that the process claims could have been rejoined. 37 CFR 1.26(a) states that "[T]he Commissioner may refund any fee paid by mistake or in excess of that required. A change of purpose after the payment of a fee...will not entitle a party to a refund of such fee..." In this case, the fees paid under 37 CFR 1.129(b) were not paid by mistake nor paid in excess, therefore, applicant would not be entitled to a refund. In the event of rejoinder, the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101,102, 103, and 112. If the application containing the rejoined claims is not in condition for allowance, the subsequent Office action may be made final, or, if the application was already under final rejection, the next Office action may be an advisory action. Form paragraphs 8.42 through 8.44 should be used to notify applicant of the rejoinder of process claims which depend from or otherwise include all the limitations of an allowable product claim.

In the event of rejoinder, the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104 - 1.106. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. If the application containing the rejoined claims is not in condition for allowance, the subsequent Office action may be made final, or, if the application was already under final rejection, the next Office action may be an advisory action.

The following is a recitation from paragraph five, "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. §103(b)" (1184 TMOG 86(March 26, 1996)):

"However, in the case of an elected product claim, rejoinder will be permitted

when a product claim is found allowable and the withdrawn process claim **depends from or otherwise includes all the limitations of** an allowed product claim. Withdrawn process claims not commensurate in scope with an allowed product claim will not be rejoined." (emphasis added)

Therefore, in accordance with M.P.EP 821.04 and In re Ochiai, 71 F.3d 1565, 37 USPQ 1127 (Fed. Cir. 1995), rejoinder of product claims with process claims commensurate in scope with the allowed product claims will occur following a finding that the product claims are allowable. Until, such time, a restriction between product claims and process claims is deemed proper. Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution to maintain either dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** 

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

# Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawquia Young whose telephone number is 571-272-9043. The examiner can normally be reached on 7:00 AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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